State, ACT, and Common Core Standards Alignment

Standards to Use for Common Benchmark Assessment Development Automotive & Robotics

| *Tennessee Standards* | ACT Standards | Common Core Standards | |
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| * 1. Perform mathematical calculations and measurements commonly used in the transportation service workplace.   2. Apply basic principles of chemistry to transportation service technology including automotive,   diesel, motorcycle, all terrain  vehicles and watercraft.   * 1. Apply basic principles of physics to transportation service technology including automotive, diesel, motorcycle, all terrain vehicles, and watercraft   .   * 1. Use the scientific process to   determine the solution to a problem. | * choose the appropriate method of   computation to solve multistep  problems (e.g., calculator, mental,  or pencil and paper)   * practice selecting appropriate   units of measure (e.g., inches or  feet, hours or minutes, centimeters  or meters) and converting between  units   * model and connect physical,   verbal, and symbolic representations  of money and numbers | * Determine or clarify the meaning of unknown and multiple-meaning words and phrases based on *grades 11–12 reading and content*, choosing flexibly from a range of strategies. * Use context (e.g., the overall meaning of a sentence, paragraph, or text; a word’s position or function in a sentence) as a clue to the meaning of a word or phrase. |
| 5.4C Complies with relevant regulations and standards.  5.5A Interprets safety signs and symbols.  5.5C Reads and interprets manufacturer recall information and makes determinations pertaining to transportation service industry.  SAMPLE PERFORMANCE TASKS   * Assess the work area for safety hazards. * Design a correction program for identified hazards. * Model the appropriate protective equipment for an assigned task. * Using case scenarios, interpret manufacturer recall information. Develop presentation on cause and effects of safety issues involved. | 20-23   * Identify the central idea or main   topic of a straightforward piece  of writing   * Determine relevancy when   presented with a variety of  sentence-level details | * Cite strong and thorough textual evidence to support analysis of what the text says explicitly as well as inferences drawn from the text. * Cite strong and thorough textual evidence to support analysis of what the text says explicitly as well as inferences drawn from the text, including determining   where the text leaves matters uncertain.   * Determine a central idea of a text and analyze its development over the course of the text, including how it emerges and is shaped and refined by specific details; provide an objective summary of the text. * Determine two or more central ideas of a text and analyze their development over the course of the text, including how they interact and build on one another to provide a complex analysis; provide an objective summary of the text. |
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